

ABSTRACT

Disclosed herein is an embedded system having a processor and at least one reference lookup table. The embedded system may be capable of supporting a component architecture platform (CAP) framework and providing a mechanism to resolve references for modules and operands at runtime. The embedded system facilitates update of firmware, drivers and application software in embedded systems such as mobile electronic devices. The system also facilitates generation of compact update packages for the embedded system. Replacement of modules is efficiently handled because at least one reference lookup table provides a needed level of indirection.